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OIL DEPOT AND GAS STATION



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1 Exploration on Application of Suspended Fuel Dispenser. Zhang Wenfeng.

STORAGE TECHNOLOGY

Contents and Abstracts

Abstract: Taking the trial application of suspended fuel dispenser in Sinopec Shanghai Oil Product Company as an example, the working principle, process flow and operation steps of suspended fuel dispenser introduced from the aspects of hose reel system, display screen, electrical control cabinet, operation button, emergency switch, handheld terminal, etc. Compared with the traditional fuel dispenser, the suspended fuel dispenser has the advantages of mature technology, safe and reliable operation of equipment, saving space, improving refueling efficiency, flexible payment method and remarkable refueling account, which has achieved better economic and social benefits. At the same time, it is also pointed out that the suspended fuel dispenser is not suitable for self - service and large freight vehicles refueling, there are certain requirements for refueling vehicles parking and lack of relevant specifications and standards. The suggestion of revising the current

Key words: gas station, suspending type, fuel dispenser, application, exploration.

standard of " Code for design and construction of filling

station" is put forward, which can provide a reference

for the popularization and application of suspended fuel

OIL AND GAS PIPELINE

dispenser.

5 Measures for Stress Release of Pipelines in Coastal Oil Product Transportation Stations. Shu Xiancheng. Abstract: The buried pipeline outside an oil product pipeline station in Zhejiang coastal area is subject to lateral and axial thrust, and both sides of the pipeline cannot move, resulting in stress concentration and displacement of some pipelines. In order to solve the problem, the measures, such as reducing the load above the pipelines inside and outside the station, replacing the adjustable pipe bracket for the pipelines inside the station, increasing the concrete square pile support for the fixed pier, and replacing the counterweight with the balance pressure belt for the pipelines outside the station, are taken to release the pipeline stress and ensure the safe operation of the pipelines.

Key words: oil product, oil transportation, pipeline,

· II ·

stress, release, measures.

INFORMATION TECHNOLOGY

9 Problems in Application of Digital Technology in Non - Oil Business and Solutions. Cui Shumin, Li Yabin, Zhang Shaoning.

Abstract: Based on the brief description of the non oil sales business and the application of digital technology in the oil product sales and non - oil business of petrochemical sales enterprises, taking the sales of diesel vehicle exhaust treatment fluid by a petrochemical technology company as an example, the problems in the application of digital technology in the current non - oil business, such as the management of commodity attributes, accurate inventory verification and real - time collection of sales flow, are analyzed. In order to solve these problems, the solutions are explored so as to provide reference for the development of non - oil business, such as transforming the existing ERP system and logistics system to solve the supply chain problems of procurement and logistics, adjusting the existing oil logistics system, proposing to transform the ERP system, and improving the non - oil procurement business of provincial and municipal oil sales enterprises.

Key words: oil sales enterprise, non - oil, business, digitization, application, problem, solution, exploration.

SAFETY TECHNOLOGY

15 Application of Analytic Hierarchy Process in Safety Management of Engineering Construction. Zhang Liqiang, Xu Yang.

Abstract: The environment faced by engineering construction and the principle of analytic hierarchy process (AHP) are introduced. Taking a project as an example, the methods, steps and results of applying analytic hierarchy process to screen the main potential safety risks on the construction site are described, so as to enable the limited resources to be invested in the management and control of the main potential safety risks, and improve the control effect of the safety risks on the construction site.

Key words: analytic hierarchy process, engineering, construction, safety, risk, control, application. ENVIRONMENTAL PROTECTION

19 Analysis on Status Quo of Tertiary Oil Vapor Recovery System in Gas Stations. Yi Wei, Cui Dan.

Abstract: In recent years, the operation effect of the tertiary oil vapor recovery system installed in some gas stations according to national standard "Emission standard of air pollutant for gasoline filling stations (GB 20952 - 2007)" is not very ideal. This problem is analyzed from the aspects of product design, standard provisions, and operation and maintenance supervision. Suggestions for improvement are put

forward: a flowmeter is added to the oil vapor pipeline after the vacuum pump; a gas/liquid separation metering cylinder is added to the pipeline after the desorption pump; an oil vapor concentration sensor is added to the exhaust pipe after the membrane module; a program of "self-diagnosis of oil vapor recovery system operation" is added to PLC and touch screen; the PLC device is integrated with RTU of the environmental detection department on internet; the vulnerable parts are reasonably reserved; and the relevant standards should be revised.

Key words: gas station, tertiary oil vapor recovery system, operation, problems, analysis, improvement, suggestions.

QUANTITY AND QUALITY MANAGEMENT

24 Measures to Optimize Training and Management of Gauger in Gas Station. Chen Wei, Liu Ke, Yang Zhengbin, Zhang Hai.

Abstract: Aiming at the problems existing in the training and management of gas station gaugers in Sinopec Guizhou Oil Product Company, such as the lack of pertinence of training materials, the lack of integrity of training system, the lack of convenience in the issuance and management of training certificates, and the lack of timeliness in the management of training personnel. The optimization measures are put forward, such as compiling the internal teaching materials to improve the training quality, improving the training system and clarifying the assessment guidance and objectives, building paperless production and issuance process of online electronic certificate for measuring personnel, establishing electronic file for measuring personnel and strengthening the management of validity of certificates to improve the training quality of measuring personnel in gas stations and lay a solid foundation for the construction of measuring personnel team in gas stations.

Key words: gas station, gauger, training, quality, management, optimization, measures.

27 Application of Total Station in Establishing Volume Table of Vertical Oil Tank. Zhang Heng.

Abstract: According to the working principle of oil tank volume table, the working principle of total station and the methods and steps of measuring and compiling vertical oil tank volume table by establishing mathematical model and using total station are introduced in detail, and the problems that should be paid attention to in the process of measuring and compiling and the countermeasures to reduce errors are put forward. Compared with the traditional method of measuring and compiling vertical oil tank volume table using girth method and water injection method, using total station to compile the volume table of oil tank has the characteristics of

saving time and labor, high degree of automation, high accuracy, small repeatability error, low labor cost and high work efficiency, which can provide a reference for the measurement and compilation of volume table of oil tank.

Key words: oil depot, oil tank, total station, measurement, compilation, volume table, method, introduction.

SAFETY MANAGEMENT

30 Introduction on Developing Course of Safety Management in Hazardous Chemicals Storage Enterprises. Wang Jun.

Abstract: Based on the experience in safety management of hazardous chemicals storage enterprises in recent ten years, the different contents of safety management in five different stages of safety management are summarized, including traditional safety management, construction and operation of safety standardization system, process safety control, standardization system construction and safety culture construction. And the advantages and disadvantages of safety management methods in different stages are analyzed, which can be used as a reference for further safety management of hazardous chemicals storage enterprises.

Key words: danger, chemicals, storage, enterprise, safety, management, development, course.

33 Statistical Analysis and Countermeasures of Gas Station Safety Incidents. He Yuan.

Abstract: From the perspective of cause type, location and time of gas station safety incidents, statistics and analysis on the gas station safety incidents of a company in the recent four years from 2017 to 2020 are carried out, and it is concluded that the cause types of gas station safety events are mostly vehicle spontaneous combustion and electrostatic fire, the occurrence location is mostly in the refueling island area, the occurrence time is mostly in the first and fourth quarters of the year and the 13: 00 to 21: 00 p. m. in a day. At the same time, some explorations and thoughts on further improving the safety management of gas stations are put forward.

Key words: gas station, safety, incident, statistics, analysis, response, measures.

36 Measures to Improve Anti – Lightning Safety Management and Emergency Response of Gas Stations. Xue Shunyong.

Abstract: Aiming at the problems of nonstandard installation of direct lightning protection, nonstandard installation of down lead protection, ground corrosion of grounding device and nonstandard equipotential connection in the lightning protection of gas stations, according to relevant standards and specifications, some suggestions are put forward on improving the

lightning protection emergency disposal of gas stations from the aspects of significance of formulating anti – lightning emergency plan, general regulations and emergency disposal process for gas stations, providing a guarantee for the safe operation of gas stations.

Key words: gas station, safety, lightning protection, emergency, disposal, measures.

OPERATION MANAGEMENT

39 Strategic Analysis on Increase of Retail Volume and Profit of SINOPEC Jiangxi Oil Product Company. Shi Jinxian.

Abstract: The general situation of the retail market of oil products in Jiangxi Province and the retail operation of SINOPEC Jiangxi Oil Product Company are introduced. Facing the epidemic situation in 2020, Jiangxi Oil Product Company implemented seriously the decision - making and deployment of the higher authorities, focused on epidemic prevention and operation management, adhered to the goal of profit efficiency, carried out comprehensively the work of continuous attack and efficiency creation, grasped the key nodes realistically and effectively, made good use of marketing resources, strictly and practically improved the on - site service, and broke through and innovated the operation mode. Its market oriented and customer - centered strategy, practice, effect and experience can be used for reference by other oil sales enterprises.

Key words: SINOPEC, Jiangxi Oil Product Company, retail, operation, strategy, analysis.

42 Development and Innovation of New Retail Supply Chain Management. Yang Ting.

Abstract: With the rapid development of information technology and the change and upgrading of residents' consumption mode, entering the new retail era, the new consumption mode brings great challenges to the traditional supply chain management. Based on the brief introduction of the concept of supply chain management and the requirements of supply chain in the new retail era, combined with the actual situation of supply chain operation management of some Ejoy convenience stores in SINOPEC in the new retail era, the implementation strategies for improving supply chain management are put forward, viz., building a new retail supply chain driven by consumers, using big data and technological innovation to improve the new retail supply chain, introducing management talents of advanced supply chain to provide reference for the development and innovation of new retail supply chain management.

Key words: new retail, convenience store, supply chain, management, development, innovation, strategy.



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